

Claims:

1. A process for finish-abrading an optical-fiber-connector end-surface which comprises a step of abrading an optical-fiber-connector end-surface with using an abrasive film composed of abrasive grains fixed on a film-form substrate, in the presence of a lubricating liquid,

wherein the lubricating liquid is an aqueous solution containing a hydrophilic surfactant.

2. The process according to claim 1, wherein the abrasive film comprises an abrasive layer which has abrasive grains and a binder, on a film-form substrate.

3. The process according to claim 1, wherein the abrasive grains comprise silica having a grain size of 1 to 500 nm.

4. The process according to claim 2, wherein the binder has a Young's modulus of 1 to 500 MPa.

5. The process according to claim 2, wherein the abrasive layer has a three-dimensional structure constructed with a plurality of regularly arranged three-dimensional elements having a predetermined shape.

6. The process according to claim 5, wherein tops of said three-dimensional elements are constructed with lines parallel to a surface of the substrate, and the lines are located on a plane parallel to the surface of the substrate.

7. The process according to any one of claims 1 to 6, wherein the surfactant is an anionic surfactant.

8. The process according to any one of claims 1 to 6, wherein the surfactant is a nonionic surfactant having a HLB value of 8 to 20.

9. The process according to claim 1, wherein the lubricating liquid has a content of a surfactant of 0.5 to 10% by weight.